



PAT MCCRORY  
*Governor*  
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*Director*

March 11, 2016

Ms. Margaret Ness  
URS Corporation – North Carolina  
1600 Perimeter Park Drive,  
Morrisville, North Carolina 27560

Re: Request for Work Plan & Cost Estimate for Task Order 312WS-2  
Sampling and Analysis of Potable Water from Water Supply Wells  
Howard Tant Road, PIN 2729-53-7048  
Bunn Dump  
Bunn, Franklin County, NC  
ID# NONCD0000312

Dear Ms. Ness:

Please submit a work plan and cost proposal to perform potable water investigation at Bunn Dump in above address in Franklin County, NC. These activities are to be conducted in accordance with State Contract No. N10001S.

**Scope of Work:** Sampling and Analysis of Potable Water from Water Supply Wells.

**Scope of work for Task Order 312WS-2, Subtask A:**

- Prepare a work plan in accordance with **URS**'s approved standard operating procedures dated *June 21, 2010*, and include a schedule of daily activities.
- Submit an itemized cost estimate that identifies personnel and materials involved.
- Reference the most recent Guidelines for Addressing Pre-Regulatory Landfills and Dumps for details regarding procedures.
- Ensure personnel in the field are qualified to identify contaminated material and landfill waste and comply with OSHA-required health and safety training. Before task activities begin, photograph areas or objects that may be disturbed. If needed, photograph affected areas and objects, restoration efforts, and noteworthy items encountered during task activities. Submit these photographs upon completion of the activities, and a review will determine if any need to be included in the report.
- Include background (light grey) topographic contour lines on figures detailing the Site and Site vicinity.
- For any invasive activities, provide a plan to properly manage investigation derived waste (IDW). If sampling results indicate non-hazardous IDW, spread within the waste disposal area. If sampling results indicate hazardous IDW, analyze containerized waste as required by waste hauler and include details of sampling and disposal of drums in the proposal.

Remove all drummed waste and associated fencing from site within 90 days after field activities are concluded.

- For any field work, minimize the clearing of vegetative material to enable access to proposed sampling points. Using hand tools for clearing is the preferred method, otherwise an explanation must be provided for use of heavy equipment.
- Submit samples to a North Carolina-certified laboratory and analyze for the following parameters by the most current U.S. EPA Contract Laboratory Program Target Compound List: volatile organic compounds by SW-846 method 8260, 1,4-dioxane by Method 8260SIM, semi-volatile organic compounds by SW-846 method 8270, 14 metals by SW-846 method 6020, mercury by method 7471, ammonia by SM 4500, and nitrate and sulfate by EPA Method 300. Please note that any alternate method should be the U.S. EPA Method having the lowest detection limit and that at least achieves the detections equivalent to the 15A NCAC 2L standards or where these are not available, then federal maximum contaminant limits (MCLs). Soil analysis methods must meet the IHSB Preliminary Soil Remediation Goals Table.

Note: once all contaminants are determined, laboratory analysis may be reduced to those positively identified contaminants.

**Task Order 312WS-2, Subtask B: Potable Water Sampling and Analysis:**

- Collect groundwater samples from the existing twenty-seven (27) potable (see attachments).
- Collect one potable water sample from each well to submit for laboratory analysis.

**Task Order 312WS-C: Report Compilation**

Compilation of the report will be approved as a separate task order. The Report will be titled "Potable Water Sampling and Analysis".

The report is to contain the following items:

- Text, tables, and figures to adequately summarize task activities.
- A section concerning any variations from the work plan or your SOPs.

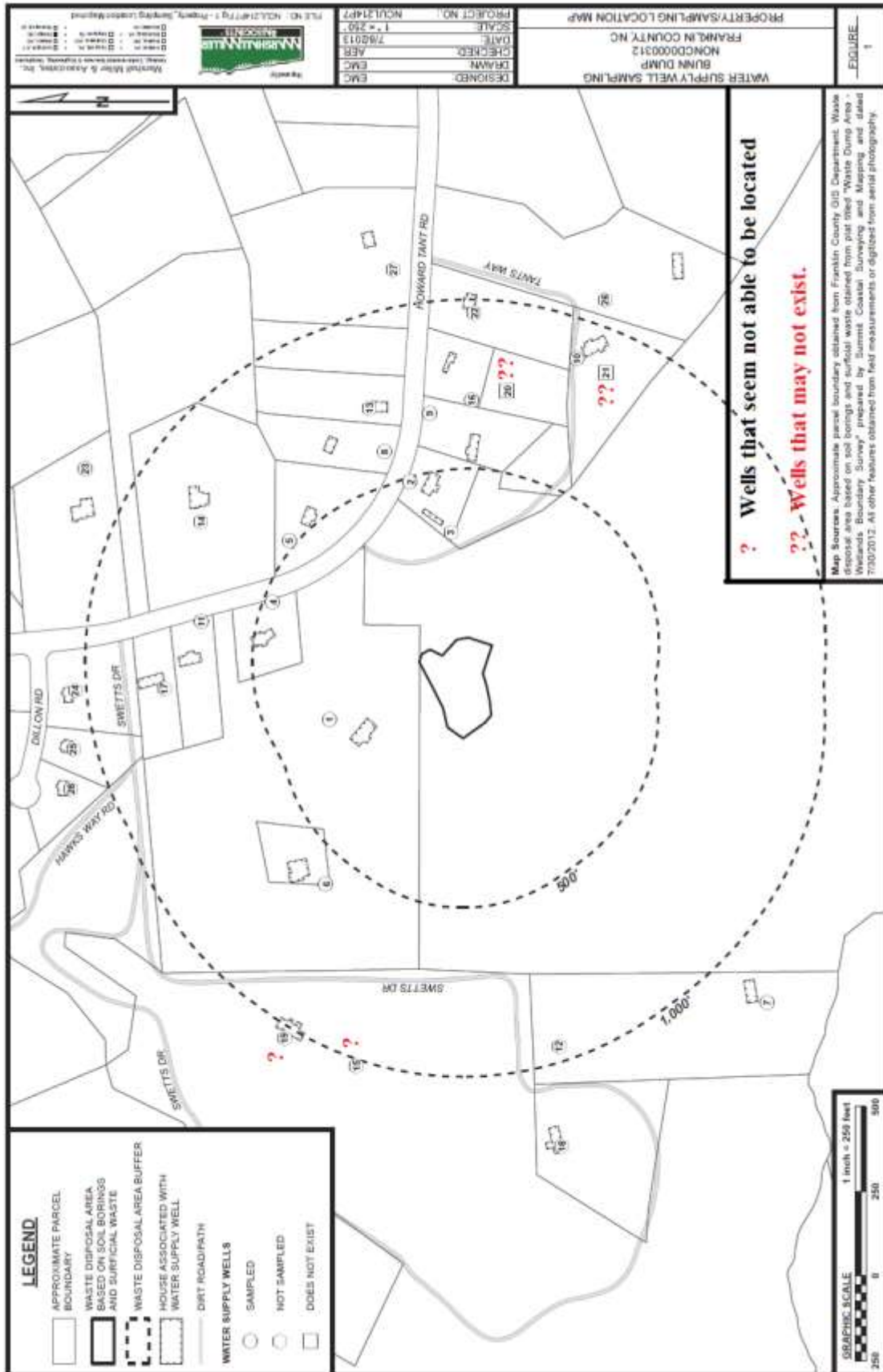
Provide the work plan and cost estimate by March 21, 2016. A task authorization to begin work will be issued based on the approved proposal. Do not proceed with tasks prior to receiving this authorization. If you have any questions, please contact me at (919) 707-8347, or [zi-qiang.chen@ncdenr.gov](mailto:zi-qiang.chen@ncdenr.gov).

Sincerely Yours,



Zi-Qiang Chen, PhD, Environmental Engineer  
Pre-Regulatory Landfill Unit  
Inactive Hazardous Sites Branch, Superfund Section  
Division of Waste Management – NCDEQ

# Attachment 1. Bunn Dump Task Order 312WS-2 Well Locations.



## Attachment 2 Bunn Dump Potable Well Location Address (Part I)

Well No.	Well Location	Property Owner/Address	PTN	Parcel ID	Distance from Site (Feet)	Direction	State Plane (Meters)		Decimal Degrees		Permission	Sampled	Notes
1	552 Howard Tarr Rd	Wells, Byron R & Mary Ellen P O Box 429 Bunn, NC 27508	2729-44-4768	000665	318	N	242365.505	678106.244	35.93151	-78.24082	2/27/13 by mail	Yes	-
2	598 Howard Tarr Rd	Wilson, Melissa A & Anthony 598 Howard Tarr Rd Zebulon, NC 27597	2729-54-4429	016985	486	E	242190.097	678200.485	35.93083	-78.23845	5/1/13 by mail	Yes	Owner reported he has installed a whole-house filtration system. The only unfiltered spigot is at the wellhead.
3	124 Tatts Way	Wilson, Anthony L & Melissa A 598 Howard Tarr Rd Zebulon, NC 27597	2729-54-3395	018626	315	E	242152.733	678274.938	35.93050	-78.23896	5/1/13 by mail	No	Owner reported that he temporarily had the water shut off to the trailer home while he was doing kitchen repairs. There was no way to sample as there is no spigot at the wellhead.
4	544 Howard Tarr Rd	Raff, Michael Curt Young, Terry R & Watt, Sharon F 544 Howard Tarr Rd Zebulon, NC 27597	2729-45-9083	002479	472	N	242315.356	678311.329	35.93197	-78.23944	2/22/13 by mail	Yes	-
5	567 Howard Tarr Rd	The Berry B Ray Living Trust c/o Betty B & George M Ray 8011 NC 39 Hwy Zebulon, NC 27597	2729-44-3878	001845	519	NE	242300.245	678367.400	35.93183	-78.23903	2/26/13 by mail	Yes	Owner reported that the water is not used for drinking after receiving bad sample results, but is used for other household purposes.
6	554 Howard Tarr Rd	Wells, Richard Brandon PO Box 50 Bunn, NC 27508	2729-44-3953	037222	589	NW	242266.815	677958.227	35.93155	-78.24246	3/1/13 by mail	Yes	-
7	227 Swetts Dr	Newland, Lloyd Dean 227 Swetts Dr Zebulon, NC 27597	2729-33-8940	001130	1183	SW	241863.910	677851.470	35.92793	-78.24568	2/27/13 by mail	Yes	Owner has an elaborate filtration system installed in the crawl space under the house. Sample was collected pre-filter.
8	595 Howard Tarr Rd	Hager, Edwin W & Super, Sandra 595 Howard Tarr Rd Zebulon, NC 27597	2729-54-3873	001091	596	E	242215.791	678347.716	35.93105	-78.23815	2/28/13 by mail	Yes	-
9	614 Howard Tarr Rd	Wiggins, William T & Marguerita 614 Howard Tarr Rd Zebulon, NC 27597	2729-54-5377	016984	673	E	242172.418	678382.173	35.93067	-78.23777	2/24/13 by mail	Yes	Owner reported that she has installed a pre-cy filtration system recently.
10	77 Tatts Way and 51 Tatts Way	Alison, Larry & Sarah, Christine 77 Tatt Way Zebulon, NC 27597	2729-54-7050	000120	884	SE	242057.928	678451.516	35.92945	-78.23723	3/22/13 by mail	Yes	Elaborate filtration system installed in the well house. Owner confirmed that sampling location bypassed system.
11	516 Howard Tarr Rd	Crosby, Johnny & Ann 516 Howard Tarr Rd Zebulon, NC 27597	2729-45-8262	029128	663	N	242380.684	678194.483	35.93256	-78.23983	2/25/13 by mail	Yes	-
12	205 Swetts Dr	Jeffreys, Judy M 205 Swetts Dr Zebulon, NC 27597	2729-33-8940	1330	954	W	242054.267	677812.205	35.9364	-78.24410	Not Received	No	-
13	601 Howard Tarr Rd	Bolden, Gregory 601 Howard Tarr Rd Zebulon, NC 27597	2729-54-7811	243	732	E	242227.314	678386.972	35.93116	-78.23771	Not Received	No	-

## Attachment 2 Bunn Dump Potable Well Location Address (Part II)

Well No.	Well Location	Property Owner/Address	PIN	Parcel ID	Distance from Site (Feet)	Direction	State Plane (Meters)		Decimal Degrees	Permission	Sampled	Notes
14	519 Howard Tant Rd	Dunston, Victor W & Carla 519 Howard Tant Rd Zebulon, NC 27597	2729-55-3274	1461	788	NE	242380.612	678384.979	35 93255 -78 23883	Not Received	No	-
15	136 Sweeths Dr	Sweet, Frank M P O Box 416 Bunn, NC 27508	2729-34-2316	002176	1019	W	242239.400	677794.585	35 93131 -78 24428	yes by mail 3/13/13	No	Well could not be located. No outside spigots observed.
16	604 Howard Tant Rd	Tant, Yolanda 604 Howard Tant Rd Zebulon, NC 27597	2729-54-7233	037833	702	E	242133.676	678394.201	35 99032 -78 23764	by phone 3/12/13	Yes	-
17	512 Howard Tant Rd	Hership, Donald & Felicia P O Box 121 Bunn, NC 27508	2729-45-8334	1451	766	N	242414.092	678134.308	35 93287 -78 24050	Not Received	No	
18	234 Sweeths Dr	Barz, David B & Joyce 234 Sweeths Dr Zebulon, NC 27597	2729-34-4090	24003	1240	W	242051.527	677722.287	35 92863 -78 24509	Not Received	No	
19	136 Sweeths Dr	Sweet, Frank M 136 Sweeths Dr Bunn, NC 27508	2729-34-2316	002176	1035	W	242304.652	677819.528	35 93190 -78 24399	yes by mail 3/13/13	No	Well could not be located. No outside spigots observed.
20	606 Howard Tant Rd	Tant, Yolanda 604 Howard Tant Rd Zebulon, NC 27597	2729-54-7483	02538			Does not exist			by phone 3/12/13	N/A	Owner reported that this property (currently vacant) shares Well No. 16.
21	77 Tants Way	Alston, Larry & Sarah, Christine 77 Tant Way Zebulon, NC 27597	2729-54-7050	120			Does not exist			3/22/13 by mail	N/A	Mr. Alston reported only one well on his property (Well 10).
22	20 Tants Way	Longo, Eric & Melissa 20 Tants Way Zebulon, NC 27597	2729-54-9333	2566	956	E	2225957.000	794392.800	35 99029 -78 23677	Not Received	No	-
23	489 Howard Tant Rd	Bradley, Cori J & Paula M 33 Pine Ridge Rd Zebulon, NC 27597	2729-55-2589	031349	1149	NE	242486.932	678332.435	35 93351 -78 23829	by mail 2/27/13	Yes	-
24	15 Dillon Rd	Smith, Tony L & Kathryn K 124 Lake Royale Louisburg, NC 27549	2729-45-8543	31494	1033	N	242485.612	678332.817	35 93360 -78 24051	Not Received	No	-
25	25 Dillon Rd	Armington, Felicia N 25 Dillon Rd Zebulon, NC 27597	2729-45-6543	31495	1067	N	242487.451	678079.905	35 93362 -78 24109	Not Received	No	-
26	39 Tants Way	Ingano, Kelly 39 Tant's Way Zebulon, NC 27597	2729-63-0787	26983	1075	E	242012.107	678484.506	35 92922 -78 23665	Not Received	No	-
27	655 Howard Tant Rd	Botts, C Dewey & Dorothy R 655 Howard Tant Rd Zebulon, NC 27597	2729-64-1800	001528	1110	E	242265.591	678311.865	35 99096 -78 23633	by mail 2/25/13	No	Owner reported that the water was "undrinkable" so he laid pipe from another well on an adjoining property to feed water to this house. He preferred that we did not sample well.